Regional Water Quality Control Board SAN DIEGO REGION (9)



SECTION 303 (d) LIST PROPOSALS

Region 9 Summary of Recommendations

Water Body	Pollutant/Medium /Beneficial Use	RWQCB Recommendation	SWRCB Recommendation
San Diego River (lower)	Fecal coliform/Water/REC-1	List	List
San Diego River (lower)	Phosphorus/Water/REC-1, REC-2, WARM, COLD	List	List
San Diego River (lower)	Total dissolved solids/Water/AGR	List	List
San Luis Rey River	Chloride/Water/IND, WARM, WILD, RARE	List	List
San Luis Rey River	Total dissolved solids/Water/AGR	List	List
Santa Margarita River (upper)	Phosphorus/Water/MUN, REC-1, REC-2, WARM, COLD, WILD, RARE	List	List
Segunda Deshecha Creek	Phosphorus/Water/REC-1, REC-2, WARM, WILD	List	List
Segunda Deshecha Creek	Turbidity/Water/WARM, WILD	List	List
Tijuana Estuary	Dissolved oxygen/Water/COMM, BIOL, EST, WILD, RARE, MAR, MIGR	List	List
Pacific Ocean Shoreline (Coronado Beach)	Bacterial indicators/Water/REC-1, REC-2	Delist	Delist, and put on Watch List to continue to keep an eye on problem.

Water Body	Pollutant/Medium /Beneficial Use	RWQCB Recommendation	SWRCB Recommendation
Pacific Ocean Shoreline (Ocean Beach)	Bacterial indicators/Water/REC-1, REC-2	Add specific location (not new HA) to 1998 Listing	Add specific location to 1998 listing within same hydrologic area.
Pacific Ocean Shoreline (South Capistrano State Beach)	Bacterial indicators/Water/REC-1, REC-2	Add specific location (not new HA) to 1998 Listing	Add specific location to 1998 listing within same hydrologic area.
Pacific Ocean Shoreline (San Onofre State Beach/San Mateo Creek Outlet)	Bacterial indicators/Water/REC-1, REC-2	Add specific location (not new HA) to 1998 Listing	Add specific location to 1998 listing within same hydrologic area.
San Diego Bay Kellog Street Beach (Pueblo San Diego HU [908.00] and Sweetwater HU [909.00])	Bacterial indicators/Water/REC-1, REC-2	Add specific location (not new HA) to 1998 Listing	Add specific location to 1998 listing within same hydrologic area.
San Diego Bay Shelter Island Shoreline Park (Pueblo San Diego 908.00 and Sweetwater)	Bacterial indicators/Water/REC-1, REC-2	Add specific location (not new HA) to 1998 Listing	Add specific location to 1998 listing within same hydrologic area.
San Diego Bay, Coronado	Bacterial indicators/Water/REC-1, REC-2	Add specific location (not new HA) to 1998 Listing	Add specific location to 1998 listing within same hydrologic area.
Agua Hedionda Creek	Diazinon/Water/WARM, WILD	List	List
Agua Hedionda Creek	Total dissolved solids/Water/MUN, AGR	List	List
Aliso Creek	Enterococci/Water/REC-1	List	List
Aliso Creek	E. coli/Water/REC-1	List	List
Aliso Creek	Fecal coliform/Water/REC-1	List	List
Aliso Creek	Phosphorus/Water/WARM, WILD	List	List

Water Body	Pollutant/Medium /Beneficial Use	RWQCB Recommendation	SWRCB Recommendation	
Aliso Creek	Toxicity/Water/WARM, WILD	List	List	
Cloverdale Creek	Phosphorus/Water/MUN, REC-1, REC-2, WARM, COLD, WILD, RARE	List	List	
Cloverdale Creek	Total dissolved solids/Water/MUN, AGR	List	List	
Dana Point Harbor	Bacterial indicators total/fecal coliform, enterococci)/Water/REC-1, SHELL	List	List	
Dana Point Harbor	Dissolved copper/Water and sediment/WILD, RARE, MAR, MIGR, SPWN	List	List	
Felicita Creek	Total dissolved solids/Water/MUN, AGR	List	List	
Forrester Creek	Fecal coliform/Water/REC-1	List	List	
Forrester Creek	pH/Water/WARM, COLD, WILD	List	List	
Forrester Creek	Total dissolved solids/Water/MUN	List	List	
Green Valley Creek	Sulfate/Water/MUN	List	List	
Kit Carson Creek	Total dissolved solids/Water/AGR	List	List	
Lake Hodges (Hodges Reservoir)	Color/Water/MUN, REC-2	List	List	

Water Body	Pollutant/Medium /Beneficial Use	RWQCB Recommendation	SWRCB Recommendation
Lake Hodges (Hodges Reservoir)	Nitrogen/Water/WARM, COLD, WILD, RARE, MUN, IND, PROC, AGR, REC-1, REC-2	List	List
Lake Hodges (Hodges Reservoir)	Phosphorus/Water/WARM, COLD, WILD, RARE, MUN, IND, PROC, AGR, REC-1, REC-2	List	List
Lake Hodges (Hodges Reservoir)	Total dissolved solids/Water/AGR	List	List
Lake Sutherland (Sutherland Reservoir)	Color/Water/MUN, REC-2	List	List
Murrieta Creek	Phosphorus/Water/REC-1, REC-2, WARM, COLD	List	List
Pacific Ocean Shoreline (Torrey Pines State Beach/Miramar Reservoir)	Bacterial indicators/Water/REC-1, REC-2	List	List
Pine Valley Creek (Upper)	Enterococci/Water/REC-1	List	List
Prima Deshecha Creek	Phosphorus/Water/REC-1, REC-2, WARM, WILD	List	List
Prima Deshecha Creek	turbidity/Water/WARM, WILD	List	List
Sandia Creek	Total dissolved solids/Water/MUN, AGR	List	List
San Diego Bay (Switzer Creek)	Degraded benthos/sediment/BIOL, EST, WILD, RARE, MAR, MIGR, SHELL	List	List

Water Body	Pollutant/Medium /Beneficial Use	RWQCB Recommendation	SWRCB Recommendation
San Diego Bay (Switzer Creek)	Toxicity/sediment/BIOL, EST, WILD, RARE, MAR, MIGR, SHELL	List	List
San Diego River (lower)	Dissolved oxygen/Water/WARM, COLD, WILD	List	List

Agua Hedionda Creek

Water Body Agua Hedionda Creek

Stressor/Media/Beneficial Use Diazinon/Water/WARM, WILD

Data quality assessment. Extent to which data quality requirements met.

NPDES permit monitoring

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

CDFG, USEPA Criteria (Continuous and Maximum

Concentrations) used

Water Body-specific Information Data age = 1-3 years.

Data used to assess water quality 4/6 (67%) violations > 0.09 ug/L, average = 0.217 ug/L, in wet

months

Spatial representation One site Only

Temporal representation Months of November, January, March, and February sampled

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Urban and agricultural runoff

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Agua Hedionda Creek

Water Body Agua Hedionda Creek

Stressor/Media/Beneficial Use Total dissolved solids/Water/MUN, AGR

Data quality assessment. Extent to which data quality requirements met.

NPDES permit monitoring

Linkage between measurement endpoint and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (500 mg/L) used

Water Body-specific Information Data age = 1-3 years.

Data used to assess water quality

City of San Diego sampling showed exceedance of the Basin Plan

objective for more than 10% of the time during a one-year period. At station AH1 from June 1998 to March 1999, 4 of 4 samples (100%) exceeded the objective, with a mean of 1268.0 mg/L and a median of 1251.5 mg/L. From January 2000 to March 2000, 1 of 3 samples (33%) exceeded the objective, with a mean of 684.3 mg/L and a median of 362.0 mg/L. One other station also demonstrated a TDS concentration to exceed the objective in June of 1998. The concentration at AHC-SA was 1372 mg/L. All non-detects were treated as 0.0 mg/L for statistical purposes. Regional Board TDS sampling in June of 1998 also show Agua Hedionda Creek to have concentrations above the Basin Plan objective. The concentration at

Sycamore Avenue was 1372 mg/L, at El Camino Real the

concentration was 1716 mg/L and 1624 mg/L.

Spatial representation Two sample sites (top and bottom of reach)

Temporal representation November 1998 to March 2000

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Anthropogenic sources, imported water, evaporation, and natural

salt sources. Also, urban runoff, agriculture runoff, other point

sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Aliso Creek

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Water Body	Aliso Creek
Stressor/Media/Beneficial Use	Enterococci/Water/REC-1
Data quality assessment. Extent to which data quality requirements met.	205(j) Planning Study used
Linkage between measurement endpoint and benefical use or standard	Pollutant can have a direct impact on beneficial uses.
Utility of measure for judging if standards or uses are not attained	WQO (Basin Plan) (>108 colonies/100 mL), for lightly/moderately used areas
Water Body-specific Information	Data age = 2 years.
Data used to assess water quality	Aliso Creek Water Quality Planning Study (6-8/99), dry weather): Cooks Corner (44% exceedences [>108 coliform forming units/100 mL]), downstream of English Canyon Creek (33%), downstream of Dairy Fork Creek (78%), downstream of Sulphur Creek (44%) and at Pacific Coast Highway (33%). (6-8/99) tributaries, dry weather: English Canyon Creek (56%), Dairy Fork Creek (78%), Aliso Hills Channel (100%), Sulphur Creek (33%) and Wood Canyon Creek (22%).
Spatial representation	9 samples at each of 10 stations (Aliso Creek and tributaries combined) entire reach sampled
Temporal representation	Sampling occurred in dry weather from June-August 1999.
Data type	Numerical data
Use of standard method	
Potential Source(s) of Pollutant	Urban runoff, other point sources and nonpoint sources
Alternative Enforceable Program	Unknown
RWQCB Recommendation	List
SWRCB Staff Recommendation	List

Aliso Creek

SWRCB Staff Recommendation

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Water Body	Aliso Creek
Stressor/Media/Beneficial Use	E. coli/Water/REC-1
Data quality assessment. Extent to which data quality requirements met.	205(j) Planning Study used
Linkage between measurement endpoint and benefical use or standard	Pollutant can have a direct impact on beneficial uses.
Utility of measure for judging if standards or uses are not attained	WQO (Basin Plan) (>406 colonies/100 mL)), for lightly/moderately used areas
Water Body-specific Information	Data age = 2 years.
Data used to assess water quality	Aliso Creek Water Quality Planning Study (6-8/99), dry weather: Cooks Corner (22% exceedences [>406 colonies/100 mL]), downstream of English Canyon Creek (56%), downstream of Dairy Fork Creek (89%), and downstream of Sulphur Creek (33%). (6-8/99) tributaries, dry weather: English Canyon Creek (44%), Dairy Fork Creek (78%), Aliso Hills Channel (67%), Sulphur Creek (22%) and Wood Canyon Creek (33%).
Spatial representation	9 samples at each of the 10 stations (Aliso Creek and tributaries combined) entire reach sampled
Temporal representation	Sampling from June-August 1999.
Data type	Numerical data
Use of standard method	
Potential Source(s) of Pollutant	Urban runoff, other point sources and nonpoint sources
Alternative Enforceable Program	Unknown
RWQCB Recommendation	List

List

Aliso Creek

SWRCB Staff Recommendation

Aliso Creek
Fecal coliform/Water/REC-1
205(j) Planning Study used
Pollutant can have a direct impact on beneficial uses.
WQO (Basin Plan) (for 5 samples or more, any 30-day period, log mean not >200 colonies/100 mL; no more than 10% total samples >400 colonies/100 mL) used
Data age = 3 years.
Aliso Creek Water Quality Planning Study (10/98): 4 locations w/log mean concentrations >> WQO for 30-day log mean objective (200 colonies/100 mL). Locations: downstream of English Canyon Creek (1074 Most Probable Number (MPN)/100 mL), downstream of Dairy Fork Creek (4308 MPN/100 mL), downstream of Sulphur Creek (1410 MPN/100 mL) and at Pacific Coast Highway (3178 MPN/100 mL). (5 samples in a 30-day period)
5 samples; lower 1 mile of Creek sampled
Samples collected in a 30-day period in October 1998.
Numerical data
Urban runoff, other point sources and nonpoint sources
Unknown
List

List

Aliso Creek

Water Body	Aliso Creek

Stressor/Media/Beneficial Use Phosphorus/Water/WARM, WILD

Data quality assessment. Extent to NPDES permit monitoring which data quality requirements met.

Linkage between measurement endpointPollutant can have a direct impact on beneficial uses.

and benefical use or standard

Utility of measure for judging if WQO (Basin Plan), narrative objective, also (biostimulatory standards or uses are not attained objective = 0.1 mg/L) not to be exceeded >10% of the time

Water Body-specific Information Data age = 1-4 years.

Data used to assess water quality

Orange County NPDES Annual Progress Report (7/97 and 7/00):

(data converted from PO4 to equivalent phosphorus value). 7/97-

6/98: 5/5 (100%) > WQO, mean = 0.23 mg/L. 9/98-8/99: 20/22 (91%)> WQO, mean=0.26 mg/L. 10/99-6/00: 13/13 (100%)>WQO,

mean=0.304 mg/L

Spatial representation 40 samples; data good for lower 4 miles of the creek

Temporal representation Over 4 years (1997-2000).

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Urban runoff, other point sources and nonpoint sources

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Aliso Creek

Water Body	Aliso Creek
Stressor/Media/Beneficial Use	Toxicity/Water/WARM, WILD
Data quality assessment. Extent to which data quality requirements met.	2-5(j) Planning Study used
Linkage between measurement endpoint and benefical use or standard	Pollutant can have a direct impact on beneficial uses.
Utility of measure for judging if standards or uses are not attained	WQO (Basin Plan) (narrative objective) used
Water Body-specific Information	Data age = 2-3 years.
Data used to assess water quality	Aliso Creek Water Quality Planning Study: 9/98no toxicity (low flow); 11/98 and 01/99toxicity to juvenile fathead minnows and Ceriodaphnia dubia (flood events). For 11/20 toxicity tests, survival rates for both species <70%; for 10/11 of these survival <50%. Average survival rate (juvenile fathead minnows) = 79%. Average survival rate (Ceriodaphnia dubia) =22%.
Spatial representation	20 samples, 5 stations over entire reach (7.2 miles) covered
Temporal representation	Samples collected from 1998-1999.
Data type	Numerical data
Use of standard method	
Potential Source(s) of Pollutant	Organophosphate pesticides are a significant component of the aquatic toxicity in storm samples. Organophosphate pesticides are found in urban and agricultural run-off.
Alternative Enforceable Program	Unknown
RWQCB Recommendation	List
SWRCB Staff Recommendation	List

Cloverdale Creek

Water Body Cloverdale Creek

Stressor/Media/Beneficial Use Phosphorus/Water/MUN, REC-1, REC-2, WARM, COLD, WILD,

RARE

Data quality assessment. Extent to City of San Diego WQ Laboratory which data quality requirements met.

Linkage between measurement endpoint Po

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if WQO (Basin Plan), narrative objective, also (biostimulatory standards or uses are not attained objective = 0.1 mg/L) not to be exceeded >10% of the time

Water Body-specific Information Data age = 2 years.

Data used to assess water qualitySampling by the City of San Diego at station CDC4 showed the

Basin Plan objective for phosphorus to be exceeded for more than 10% of the time during the year. Eight of 8 samples exceeded the objective, with an average concentration was 0.45 mg/L and a

median concentration was 0.34 mg/L.

Spatial representation One sample site, 1/2 mile of Creek

Temporal representation Samples collected April 1999-March 2000.

Data type Numerical data

Use of standard method NPDES procedures

Potential Source(s) of Pollutant Urban runoff, other point sources and nonpoint sources

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Cloverdale Creek

Water Body Cloverdale Creek

Stressor/Media/Beneficial Use Total dissolved solids/Water/MUN, AGR

Data quality assessment. Extent to which data quality requirements met.

City of San Diego WQ Laboratory

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (500 mg/L) used

Water Body-specific Information Data age = 1-2 years.

Data used to assess water qualitySampling by the City of San Diego at station CDC4 showed the

Basin Plan objective for TDS to be exceeded for more than 10% of the time during the year. Eight of 8 samples exceeded the objective, with an average concentration of 1443.4 mg/L and a median

concentration of 1500.0 mg/L.

Spatial representation One sample site, 1/2 mile of Creek

Temporal representation Samples collected April 1999-March 2000.

Data type Numerical data

Use of standard method NPDES procedures

Potential Source(s) of Pollutant Anthropogenic sources, imported water, evaporation, and natural

salt sources. Also, urban runoff, agriculture runoff, other point

sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Dana Point Harbor

Water Body Dana Point Harbor

Stressor/Media/Beneficial Use Bacterial indicators total/fecal coliform, enterococci)/Water/REC-1,

SHELL

Data quality assessment. Extent toOrange County Environmental Health Care Agency which data quality requirements met.

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if WQO (Basin Plan/Ocean Plan), via beach closures used. See #3 standards or uses are not attained (column) entry for Pacific Ocean Shoreline (Ocean Beach)

Water Body-specific Information Data age = 1 yr.

Data used to assess water quality 54 days of Beach Closures and/or General Advisories or beach

closures suggested that REC-1 standards were exceeded.

Spatial representation sampled within 400 yards (0.2 miles) of discharge point

Temporal representation probable

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Sewage spills/leaks, urban runoff, other point sources, nonpoint

sources, and domestic/wild animals.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Dana Point Harbor

Water Body Dana Point Harbor

Stressor/Media/Beneficial Use Dissolved copper/Water and sediment/WILD, RARE, MAR, MIGR,

SPWN

Data quality assessment. Extent to Orange County NPDES permit monitoring which data quality requirements met.

Linkage between measurement endpoint Pollutant can have a direct impact on beneficial uses. and benefical use or standard

Utility of measure for judging if Water: CTR criteria used. Sediment: Effects Range Low, Effects standards or uses are not attained Range Median (ERM)

Water Body-specific Information Data age = 1-10 years.

Data used to assess water qualityWater data: 15/45 (33%) samples>CMC but data are suspect.

Sediment data: 200-2001: 25/25 (100%) > ERL, 14/25 (56%) > ERM; all years ('99-'01): 37/62 (60%) > ERL, 18/62 (29%) > ERM. Summary: Limited direct evidence of elevated dissolved copper concentrations in Dana Point Harbor. One storm event resulted in all the direct evidence of exceedances and there is limited evidence that the data may not be valid due to analytical errors at the contracted laboratory. However, during the one storm event, 100% of the samples exceeded the CMC by a large margin. Considering all three-storm events, one-third of the samples exceeded the CMC. In addition, total copper concentrations are now above the ERM at

over half the stations sampled and exceed the ERL at all the stations.

Spatial representation Five stations sampled within Harbor and just outside Harbor mouth.

Temporal representation Two storm events sampled per year. No dry-weather, dissolved

copper data was used.

Data type Numerical data

Use of standard method RWOCB staff found that the lab used a non-standard method and

that the data should be interpreted with caution.

Potential Source(s) of Pollutant RWQCB staff has knowledge of antifouling (Cu-containing) paint

use in Dana Point Harbor.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Felicita Creek

Water Rody	Felicita Creek

Stressor/Media/Beneficial Use Total dissolved solids/Water/MUN, AGR

Data quality assessment. Extent to which data quality requirements met. City of San Diego WQ Laboratory

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained WQO (Basin Plan) (500 mg/L) used

Water Body-specific Information Data age = 2 years.

Data used to assess water quality Sampling by the City of San Diego showed the Basin Plan objective

> to be exceeded for more than 10% of the time during a one year period. Near Quiet Hills Farm Road, from April to June 999, 3 of 3 samples (100%) exceeded the objective, with a mean of 1343.3 mg/L and a median of 1340.0 mg/L. Near East Mission Road, from April 1999 to April 2000, 10 of 11 samples (91%) exceeded the objective, with a mean of 1088.3 mg/L and a median of 1330.0 mg/L. From January 2001 to July 2001, 10 of 10 samples (100%) exceeded the objective, with a mean of 1308.1 mg/L and a median of 1365.0 mg/L. The data indicate TDS concentrations to be increasing over this time period, but the data represent only a short

temporal span.

Two stations; 2 miles of Creek covered **Spatial representation**

Temporal representation Sampling occurred between April 1999 and May 2001.

Numerical data Data type

Use of standard method

Potential Source(s) of Pollutant Anthropogenic sources, imported water, evaporation, and natural

salt sources. Also, urban runoff, agriculture runoff, other point

sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Forrester Creek

Water Body Forrester Creek

Stressor/Media/Beneficial Use Fecal coliform/Water/REC-1

Data quality assessment. Extent to

Padre Dam Municipal Water District Receiving Water
which data quality requirements met.

Sampling/analysis

Linkage between measurement endpoint Pollutant can have a direct impact on beneficial uses. and benefical use or standard

Utility of measure for judging if WQO (Basin Plan): For single samples, the Basin Plan1 objective standards or uses are not attained states that no more than 10% of the total samples during any 30-day

period shall exceed 400 colonies/100 mL.

Water Body-specific Information Data age = 3 yr.

Data used to assess water quality

Sampling was done by the Padre Dam Municipal Wastewater

District intermittently. Data was taken once a month for October-March and twice a month for April-October. The data shows that 14 of 38 samples (37%) in both wet and dry weather had levels of fecal coliform in excess of 400 Most Probable Number (MPN)/mL.

Spatial representation One monitoring site

Temporal representation Samples were collected between October 1997 and September 2000.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant

Urban runoff, other point sources, nonpoint sources, and sewage

spills

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Forrester Creek

Water Body-specific Information

Water Body Forrester Creek

Stressor/Media/Beneficial Use pH/Water/WARM, COLD, WILD

Data quality assessment. Extent to NPDES monitoring; City spill reports which data quality requirements met.

Linkage between measurement endpoint Pollutant can have a direct impact on beneficial uses.

and benefical use or standard

Utility of measure for judging if WQO (Basin Plan) (6.5-8.5) used standards or uses are not attained

Data used to assess water quality

Data collected by the City of El Cajon show that 28 of 34 pH

Data age = 1-4 years.

samples (82%) exceeded the Basin Plan objective. The average pH value was 9.0 and the median value was 8.9. In addition, spill reports from the City of El Cajon4 record a spill of approximately 1000 gallons of sodium hydroxide into Forrester Creek in July 2000. Measurements of pH were high before and after this reported spill. Existing regulatory actions may not be sufficient to protect

Forrester Creek from high pH.

Spatial representation Six drainage areas

Temporal representation Samples were collected between September 1994 and January 2001.

Data type Numerical data

Use of standard method NPDES procedures

Potential Source(s) of Pollutant Industrial spills, urban runoff, other point sources, nonpoint sources,

lack of shade cover, light penetration, (solar) heating of the water,

increased photosynthesis, leached concrete components.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Forrester Creek

Water Body Forrester Creek

Stressor/Media/Beneficial Use Total dissolved solids/Water/MUN

Data quality assessment. Extent to which data quality requirements met.

Padre Dam Municipal Water District Receiving Water

Sampling/analysis

Linkage between measurement endpoint and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

The Basin Plan1 objective for surface waters in the lower portion of hydrologic unit sub area 907.12 is 1500 mg/L. This objective is not to be exceeded more than 10% of the time during any one-year period.

Water Body-specific Information

Data age = 1-4 years.

Data used to assess water quality

Basin Plan objective was exceeded for more than 10% of the time during a one-year period from September 1997 to September 1998. 17 of 18 samples (94%) exceeded the objective, with a mean of 1667.3 mg/L and a median of 1738.0 mg/L (15.9% above the objective). From October 1998 to October 1999, 16 of 20 samples (80%) exceeded the objective, with a mean of 1647.6 mg/L and a median of 1706.0 mg/L (13.7% above the objective). From November 1999 to December 2000, 19 of 21 samples (95%) exceeded the objective, with a mean of 1589.7 mg/L and a median of 1656.0 mg/L (10.4% above the objective).

Spatial representation One sample sight

Temporal representation Samples were collected between September 1997 and December

2000.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Anthropogenic sources, imported water, evaporation, and natural

salt sources. Also, urban runoff, agriculture runoff, other point

sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Green Valley Creek

Water Body Green Valley Creek

Stressor/Media/Beneficial Use Sulfate/Water/MUN

Data quality assessment. Extent to which data quality requirements met.

City of San Diego WQ Laboratory

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (250 mg/L) used

Water Body-specific Information Data age = 1-2 years.

Data used to assess water quality

Data from the City of San Diego Water Quality Lab from April 1999

to July 2001 show the Basin Plan objective to be exceeded for more than 10% of the time during a one-year period. From April 1999 to April 2000, 8 of 13 samples (62%) exceeded the objective, with a mean of 305.1 mg/L and a median of 313.0 mg/L. From January 2001 to July 2001, 6 of 10 samples (60%) exceeded the objective,

with a mean of 355.7 mg/L and a median of 447.0 mg/L.

Spatial representation Only one station

Temporal representation Samples collected between April 1999 and July 2001. It should be

noted that the majority of the sampling occurred during the months of January, February, March and April. This is generally considered

to be the rainy season in San Diego.

Data type Numerical data

Use of standard method NPDES procedures

Potential Source(s) of Pollutant

Urban runoff, other point sources, nonpoint sources, and natural

sources

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Kit Carson Creek

Water Body Kit Carson Creek

Stressor/Media/Beneficial Use Total dissolved solids/Water/AGR

Data quality assessment. Extent to City of San Diego WQ Laboratory

which data quality requirements met.

Linkage between measurement endpoint and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if WQO (Basin Plan) (500 mg/L) used standards or uses are not attained

Water Body-specific Information Data age = 3 years.

Data used to assess water quality Data from the City of San Diego Water Quality Lab from April 1999

to May 2001 show the Basin Plan objective to be exceeded for more than 10% of the time during a one-year period. From April 1999 to April 2000, 10 of 11 samples (91%) exceeded the objective, with a mean of 990.5 mg/L and a median of 1200.0 mg/L. From January 2001 to July 2001, 10 of 10 samples (100%) exceeded the objective,

with a mean of 1170.9 mg/L and a median of 1300.0 mg/L.

Spatial representation One sampling station, 1/2 mile of Creek

Temporal representation Samples collected between April 1999 and May 2001. It should be

noted that the majority of the sampling occurred during the months of January, February, March and April. This is generally considered

to be the rainy season in San Diego.

Data type Numerical data

Use of standard method NPDES procedures

Potential Source(s) of Pollutant Anthropogenic sources, imported water, evaporation, and natural

salt sources. Also, urban runoff, agriculture runoff, other point

sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Lake Hodges (Hodges Reservoir)

Water Body Lake Hodges (Hodges Reservoir)

Stressor/Media/Beneficial Use Color/Water/MUN, REC-2

Data quality assessment. Extent to which data quality requirements met.

City of San Diego WQ Laboratory

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (15 color units) used

Water Body-specific Information Data age = 4 years.

Data used to assess water quality

Data from the City of San Diego Water Quality Lab from September

1997 to December 2000 show the Basin Plan objective to be exceeded for more than 10% of the time during a one-year period. From March 1998 to March 1999, 4 of 4 samples (100%) exceeded the objective, with a mean of 53.6 color units and a median of 37.3 color units. From June 1999 to June 2000, 5 of 5 samples (100%) exceeded the objective, with a mean of 65.8 color units and a median of 78.0 color units. In September and December of 2000, 2 of 2 samples (100%) exceeded the objective, with a mean and

median of 64.0 color units.

Spatial representation One station

Temporal representation Samples collected between September 1997 and December 2000.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Urban runoff, other point sources and nonpoint sources

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Lake Hodges (Hodges Reservoir)

Water Body Lake Hodges (Hodges Reservoir)

Stressor/Media/Beneficial Use Nitrogen/Water/WARM, COLD, WILD, RARE, MUN, IND,

PROC, AGR, REC-1, REC-2

Data quality assessment. Extent to City of San Diego WQ Laboratory, (narrative) descriptions by

which data quality requirements met. SDWD

Linkage between measurement endpoint

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

and benefical use or standard

Measurements are related to the Basin Plan WQO.

Water Body-specific Information Data age = 4 years.

Data used to assess water quality Data from the City of San Diego Water Quality Lab from July 1997-

May 2001 show that 5 locations exceeded the Basin Plan objective

for more than 10% of the time during a one-year period.

Spatial representation The first sampling location is near the boat launch ramp. The rest of

the sampling points are located at various depths at Station A, which is in front of the reservoir dam and outfall structure to the flume

delivering water to Badger Filtration Plant.

Temporal representation July 1997-May 2001.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Urban runoff, local dairies, agriculture, orchards, other point sources

and nonpoint sources

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Lake Hodges (Hodges Reservoir)

Water Body Lake Hodges (Hodges Reservoir)

Stressor/Media/Beneficial Use Phosphorus/Water/WARM, COLD, WILD, RARE, MUN, IND,

PROC, AGR, REC-1, REC-2

Data quality assessment. Extent to City of San Diego WQ Laboratory, (narrative) descriptions by

which data quality requirements met. SDWD

Linkage between measurement endpoint and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) used

Water Body-specific Information Data age = 4 years.

Data used to assess water quality Data from the City of San Diego Water Quality Lab from July 1997-

May 2001 show that 5 locations exceeded the Basin Plan objective

for more than 10% of the time during a one-year period.

Spatial representation The first sampling location is near the boat launch ramp. The rest of

the sampling points are located at various depths at Station A, which is in front of the reservoir dam and outfall structure to the flume

delivering water to Badger Filtration Plant.

Temporal representation July 1997-May 2001.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Urban runoff, local dairies, agriculture, orchards, other point sources

and nonpoint sources

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Lake Hodges (Hodges Reservoir)

Water Body Lake Hodges (Hodges Reservoir)

Stressor/Media/Beneficial Use Total dissolved solids/Water/AGR

Data quality assessment. Extent to which data quality requirements met.

City of San Diego WQ Laboratory

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (500 mg/L) used

Water Body-specific Information Data age = 4 years.

Data used to assess water qualityData from the City of San Diego Water Quality Lab from September

1998 to December 2000 show the Basin Plan objective to be exceeded for more than 10% of time during a one-year period. From September 98 to September 99, 5 of 5 samples (100%) exceeded the objective, with a mean of 653.6 mg/L and a median of 659.0 mg/L. From December 99 to December 00, 5 of 5 samples (100%) exceeded the objective, with a mean of 770.2 mg/L and a

median of 754.0 mg/L.

Spatial representation Two representative sampling stations

Temporal representation September 1998-December 2000.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Anthropogenic sources, imported water, evaporation, and natural

salt sources. Also, urban runoff, agriculture runoff, other point

sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Lake Sutherland (Sutherland Reservoir)

Lake Sutherland (Sutherland Reservoir) Water Body

Stressor/Media/Beneficial Use Color/Water/MUN, REC-2

City of San Diego WQ Laboratory, (narrative) descriptions by Data quality assessment. Extent to SDWD

which data quality requirements met.

Linkage between measurement endpoint and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained WQO (Basin Plan) (15 color units) used

Water Body-specific Information Data age = 1-5 years.

Data used to assess water quality Data from the City of San Diego Water Quality Lab from March

> 1997 to June 2000 show the Basin Plan objective to be exceeded for more than 10% of the time during a one-year period. From March 1998 to March 1999, 3 of 3 samples (100%) exceeded the objective, with a mean of 33.7 color units and a median of 34.0 color units. From June 1999 to June 2000, 5 of 5 samples exceeded the objective, with a mean of 25.2 color units and a median of 26.0 color units. Form September 2000 to December 2000, 3 of 3 samples exceeded the objective, with a mean of 22.3 color units and a median of 28.0 color units. In addition, staff at the San Diego Water Department have noticed a persistent odor problem as well as excessive algae growth at the reservoir.3 Odor, color, and excessive algae growth in the reservoir are typically due to excessive nutrients (nitrogen and phosphorous). However, actual concentrations of nitrogen and phosphorous do not currently exceed Basin Plan objectives. This may be due to the fact that the algae are using a majority of the available nutrients. Nutrient data from City of San Diego Water Quality Lab from March 1997 to July 2001 showed only 1 of 17 samples (6%) to have a detectable concentration of

phosphate or nitrate.

3 to 5 samples were used, indicative of entire reservoir **Spatial representation**

March 1997 to July 2001. Temporal representation

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Excessive algae growth, urban runoff, other point sources, and

nonpoint sources

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Murrieta Creek

SWRCB Staff Recommendation

Water Body	Murrieta Creek
Stressor/Media/Beneficial Use	Phosphorus/Water/REC-1, REC-2, WARM, COLD
Data quality assessment. Extent to which data quality requirements met.	Final WQ Studies and Proposed Watershed Monitoring Program Report, SDRWQCB Monitoring data
Linkage between measurement endpoint and benefical use or standard	Pollutant can have a direct impact on beneficial uses.
Utility of measure for judging if standards or uses are not attained	WQO (Basin Plan) (biostimulatory objective = 0.1 mg/L) used
Water Body-specific Information	Data age = 2 year.
Data used to assess water quality	12/97-11/98: 4/5 (80%) exceedences, mean=0.28 mg/mL; 02 and 05/99: 2/2 (100%) violations, mean=0.21 mg/mL
Spatial representation	Samples at start and finish of reach
Temporal representation	Sampling from November 1997 to May 1999.
Data type	Numerical data
Use of standard method	
Potential Source(s) of Pollutant	Urban runoff, other point sources and nonpoint sources
Alternative Enforceable Program	Unknown
RWQCB Recommendation	List

List

Pacific Ocean Shoreline (Torrey Pines State Beach/Miramar Reservoir)

Pacific Ocean Shoreline (Torrey Pines State Beach/Miramar Water Body

Reservoir)

Stressor/Media/Beneficial Use Bacterial indicators/Water/REC-1, REC-2

Data quality assessment. Extent to which data quality requirements met. San Diego County Department of Environmental Health

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if

standards or uses are not attained

See #3 entry for Pacific Ocean Shoreline (Ocean Beach)

Water Body-specific Information Data age = 1 yr.

Data used to assess water quality 32 days of Beach Closures and/or General Advisories or beach

closures suggested that REC-1 standards were exceeded.

Spatial representation Sampled within 400 yards (0.2 miles) of discharge point

Temporal representation 32 days of closures/advisories.

Data type Numerical data

Use of standard method

Sewage spills/leaks, urban runoff, other point sources, nonpoint Potential Source(s) of Pollutant

sources, and domestic/wild animals.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Pine Valley Creek (Upper)

Water Body Pine Valley Creek (Upper)

Stressor/Media/Beneficial Use Enterococci/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

SR: USDA Forest Service, FS: City of San Diego Water Dept.

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (108 colonies/100 mL) for lightly-moderately

used areas.

Water Body-specific Information Data age = 3 years.

Data used to assess water quality 6/11 (55%) violations of Basin Plan objective, log mean = 223

coliform-forming units

Spatial representation five sampling locations along Creek

Temporal representation Unknown

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant From horse stables, cattle grazing in and near the creek, and human

encampments

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Prima Deshecha Creek

Water Body Prima Deshecha Creek

Stressor/Media/Beneficial Use Phosphorus/Water/REC-1, REC-2, WARM, WILD

Data quality assessment. Extent to which data quality requirements met.

NPDES permit monitoring

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (biostimulatory substance index = 0.1 mg/L) used

Water Body-specific Information Data age = 1-4 years.

Data used to assess water quality 7/97-6/98: 13/16 (81%) exceedences, mean=1.01 mg/mL; 8/98-

7/99: 24/29 (83%) exceedences, mean=0.69 mg/mL; 10/99-6/00: 9/9 (100%) exceedences, mean=1.37 mg/mL, all from wet months.

Spatial representation One sample site

Temporal representationJuly 1997 to June 2000 during wet weather months.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Urban runoff, other point sources and nonpoint sources

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Prima Deshecha Creek

Water Body Prima Deshecha Creek

Stressor/Media/Beneficial Use turbidity/Water/WARM, WILD

Data quality assessment. Extent to which data quality requirements met.

NPDES permit monitoring

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (20 Nephelometric Turbidity Units [NTU]) used

Water Body-specific Information Data age = 4 years.

Data used to assess water quality 7/97-6/98: 14/16 (88%) exceedences, mean=553.3 NTU; 8/98-

7/99: 18/29 (62%) exceedences, mean=268.3 NTU; 10/99-6/00: 9/9 (100%) exceedences, mean=962.4 NTU, all from wet months

Spatial representation One sample site

Temporal representation Sampling from July 1997 to June 2000.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Channelization, increased water velocity, undercutting of banks;

increased turbidity; current/historic construction

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Sandia Creek

Use of standard method

Potential Source(s) of Pollutant

Water Body

Stressor/Media/Beneficial Use	Total dissolved solids/Water/MUN, AGR
Data quality assessment. Extent to which data quality requirements met.	WQ Studies and Proposed Watershed Monitoring Program Report, SDRWQCB Monitoring data
Linkage between measurement endpoint and benefical use or standard	Pollutant can have a direct impact on beneficial uses.
Utility of measure for judging if standards or uses are not attained	WQO (Basin Plan) (750 mg/L) used
Water Body-specific Information	Data age = 1-4 years.
Data used to assess water quality	11/11 (100%) violations of WQO, average = 917.7 mg/L
Spatial representation	Two samples, One at top and One at bottom of reach
Temporal representation	Unknown
Data type	Numerical data

Anthropogenic sources, imported water, evaporation, and natural salt sources. Also, urban runoff, agriculture runoff, other point

sources, and nonpoint sources.

Sandia Creek

RWQCB Recommendation List

San Diego Bay (Switzer Creek)

Water Body	San Diego Bay (Switzer Cre	ek)
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Stressor/Media/Beneficial Use Degraded benthos/sediment/BIOL, EST, WILD, RARE, MAR,

MIGR, SHELL

Data quality assessment. Extent to which data quality requirements met.

BPTCP; 1998 Addendum

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

Narrative Basin Plan objective used. Indicator organisms, species diversity, population density, growth anomalies, bioassays, and

other information used.

Water Body-specific Information Data age = 5 years.

Data used to assess water quality RBI = 0.02 (75 samples); Chemical concentrations >4 times the

ERM and 5.9 times the PEL

Spatial representation 1 Core, sampled 3 times compared against 75 cores from all of SD

Bay; sampled at outlet of the Creek

Temporal representation Unknown

Data type Numerical data

Use of standard method BPTCP methods used

Potential Source(s) of Pollutant Elevated concentrations of chlordane, lindane, polynuclear aromatic

hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs), current/historic shipyard activity, historic PAH and garbage dumping, urban runoff, other point sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

San Diego Bay (Switzer Creek)

Water Body	San Diego Bay (Switzer Creek)

Stressor/Media/Beneficial Use Toxicity/sediment/BIOL, EST, WILD, RARE, MAR, MIGR,

SHELL

Data quality assessment. Extent to which data quality requirements met.

BPTCP; 1998 Addendum

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

toxicity tests used narrative Basin Plan objective

Water Body-specific Information Data age = 5 years.

Data used to assess water quality <48% amphipod survival

Spatial representation 1 sample, 5 replicates; sampled at outlet of the Creek

Temporal representation Unknown

Data type Numerical data

Use of standard method BPTCP methods used

Potential Source(s) of Pollutant Elevated concentrations of chlordane, lindane, polynuclear aromatic

hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs), current/historic shipyard activity, historic PAH and garbage dumping, urban runoff, other point sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

San Diego River (lower)

Water Body San Diego River (lower)

Stressor/Media/Beneficial Use Dissolved oxygen/Water/WARM, COLD, WILD

Data quality assessment. Extent to which data quality requirements met.

Padre Dam Municipal Water District Receiving Water

Sampling/analysis

Data age = 4 years.

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (6.0 mg/L) used; annual mean concentration not

to be <7 mg/L more than 10% of the time

Water Body-specific Information

Data used to assess water quality

Sampling in September 1997 and from April to December 2000 by the Padre Dam Municipal Wastewater District showed dissolved oxygen concentrations to be below the Basin Plan Objective of 6.0 mg/L in 76 of 84 samples (90%). Concentrations below the objective were measured at all 5 sampling points along the river. The average measured concentration was 4.87 mg/L and the median concentration was 4.48 mg/L. In addition, during the year 2000, all 5 stations were below the annual Basin Plan Objective of 7.0 mg/L

for more than 10% of the time.

Spatial representation 20 miles of River sampled

Temporal representation Sampling completed between September 1997 and December 2000.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Bacterial loading, subsequent decomposition of organic matter,

urban runoff, other point sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

San Diego River (lower)

Water Body San Diego River (lower)

Stressor/Media/Beneficial Use Fecal coliform/Water/REC-1

Data quality assessment. Extent toPadre Dam Municipal Water District Receiving Water which data quality requirements met.

Padre Dam Municipal Water District Receiving Water Sampling/analysis

Linkage between measurement endpoint and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if WQ standards or uses are not attained state

WQO (Basin Plan): For single samples, the Basin Plan1 objective states that no more than 10% of the total samples during any 30-day period shall exceed 400 colonies/100 mL.

Water Body-specific Information Data age = 1 yr.

Data used to assess water quality

Sampling was done by the Padre Dam Municipal Wastewater

District intermittently from November 1998 to September 2000. Data was taken once a month for October-March and twice a month for April-October. The data shows that 11 of 18 samples (61%) in both wet and dry weather had levels of fecal coliform in excess of

400 Most Probable Number (MPN)/mL.

Spatial representation 6 miles of River sampled

Temporal representation Sampling completed between November 1998 and September 2000.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Urban runoff, other point sources, nonpoint sources, and sewage.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

San Diego River (lower)

San Diego River (lower) Water Body

Stressor/Media/Beneficial Use Phosphorus/Water/REC-1, REC-2, WARM, COLD

Padre Dam Municipal Water District Receiving Water Data quality assessment. Extent to which data quality requirements met. Sampling/analysis

Linkage between measurement endpoint Pollutant can have a direct impact on beneficial uses. and benefical use or standard

WQO (Basin Plan) (biostimulatory substances objective) (0.1 mg/L) Utility of measure for judging if used

standards or uses are not attained

Water Body-specific Information Data age = 4 years.

Sampling in September 1997 and from April to December 2000 by Data used to assess water quality

> the Padre Dam Municipal Wastewater District showed phosphorus concentrations to exceed the Basin Plan Objective for more than 10% of the time during a one-year period. Table of data, averages,

etc. available.

Spatial representation 5 sample sites (20 miles of River)

September 1997 to December 2000. **Temporal representation**

Numerical data Data type

Use of standard method

Urban runoff, other point sources, and nonpoint sources. Potential Source(s) of Pollutant

Alternative Enforceable Program Unknown

RWQCB Recommendation List

San Diego River (lower)

standards or uses are not attained

Water Body San Diego River (lower)

Stressor/Media/Beneficial Use Total dissolved solids/Water/AGR

Data quality assessment. Extent to Padre Dam Municipal Water District Receiving Water

which data quality requirements met. Sampling/analysis

Linkage between measurement endpoint Pollutant can have a direct impact on beneficial uses. and benefical use or standard

Utility of measure for judging if WQO (Basin Plan) (1500 mg/L) used; This objective is not to be

Water Body-specific Information Data age = 4 years.

Data used to assess water quality Sampling between September 1997 and December 2000 by the

Padre Dam Municipal Water District shows three locations along the San Diego River to exceed the Basin Plan TDS objective for more than 10% of the time during a one-year period. See the table below for the averages, medians and frequency of exceedances for three locations along the San Diego River. All 3 locations show a seasonal and an increasing trend over the 3 years reviewed.

exceeded more than 10% of the time during any one-year period.

seasonal and an increasing trend over the 3 years reviewed.

Spatial representation Three sample sites (15 miles of River)

Temporal representation September 1997 to December 2000.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Anthropogenic sources, imported water, evaporation, and natural

salt sources. Also, urban runoff, agriculture runoff, other point

sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

San Luis Rey River

Water Body San Luis Rey River

Stressor/Media/Beneficial Use Chloride/Water/IND, WARM, WILD, RARE

Data quality assessment. Extent to which data quality requirements met.

City of Oceanside Water Utilities Laboratory

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (250 mg/L) used

Water Body-specific Information Data age = 4 years.

Data used to assess water qualityBonsall Bridge: 11/97-06/98: 1/3 (33%) exceedences, mean=281.0

mg/L; 09/98-09/99:3/3 (100%) exceedences, mean=321.0 mg/mL; 12/99-11/00: 4/5 (80%) exceedences, mean=314.0 mg/mL. Douglas Bridge: 11/97-09/98: 2/4 (50%) exceedences, mean=272.5 mg/L; 03/99-09/99:2/2 (100%) exceedences, mean=310.5 mg/mL; 04/00-11/00: 3/4 (75%) exceedences, mean=312.5 mg/mL. Benet Road: 11/97-09/98: 2/4 (50%) exceedences, mean=401.5 mg/L; 03 and 12/99: 2/2 (100%) exceedences, mean=444.5 mg/mL; 04/00-11/00: 4/4 (100%)

exceedences, mean=410.0 mg/mL

Spatial representation Lower 13 miles of River, nearest City of Oceanside, was sampled at

three locations.

Temporal representation November 1997 to November 2000.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Urban runoff, other point sources and nonpoint sources

Alternative Enforceable Program Unknown

RWQCB Recommendation List

San Luis Rey River

Water Body San Luis Rey River

Stressor/Media/Beneficial Use Total dissolved solids/Water/AGR

Data quality assessment. Extent to which data quality requirements met.

City of Oceanside Water Utilities Laboratory

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (500 mg/L) used

Water Body-specific Information Data age = 1-4 years.

Data used to assess water qualityCity of Oceanside sampling: Bonsall Bridge: 11/97-06/98: 3/3

(100%) exceedences, mean=1577 mg/L; 09/98-09/99: 3/3 (100%) exceedences, mean=1512.7 mg/mL; 12/99-11/00: 5/5 (100%) exceedences, mean=1694 mg/mL. Douglas Bridge: 11/97-09/98: 4/4 (100%) exceedences, mean=1328 mg/L; 03/99-09/99:2/2 (100%) exceedences, mean=1466 mg/mL; 04/00-11/00: 4/4 (100%) exceedences, mean=1613 mg/mL. Benet Road: 11/97-09/98: 4/4 (100%) exceedences, mean=1572 mg/L; 03/99-12/99: 2/2 (100%) exceedences, mean=1695 mg/mL; 04/00-11/00: 4/4 (100%)

395 and 850 mg/L.

Spatial representationLower 13 miles of River, nearest City of Oceanside, was sampled at

three locations. Two additional samples were also taken another 4

exceedences, mean=1835 mg/mL. RWQCB sampling: samples of

miles upstream.

Temporal representation November 1997 to November 2000.

Data type Numerical data

Use of standard method NPDES procedures

Potential Source(s) of Pollutant Anthropogenic sources, imported water, evaporation, and natural

salt sources. Also, urban runoff, agriculture runoff, other point

sources, and nonpoint sources.

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Santa Margarita River (upper)

Santa Margarita River (upper) Water Body

Stressor/Media/Beneficial Use Phosphorus/Water/MUN, REC-1, REC-2, WARM, COLD, WILD,

Data quality assessment. Extent to Final WQ Studies and Proposed Watershed Monitoring Program which data quality requirements met.

Report, SDRWQCB Monitoring data, RCWD Annual Receiving

Water Monitoring Report (2000)

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained WQO (Basin Plan) (biostimulatory substance index = 0.1 mg/L) used

Water Body-specific Information Data age = 4 years.

Camp Pendleton sampling: (near Temecula) 12/97-11/98: 4/5 Data used to assess water quality

(80%) violations, average = 0.24 mg/L; 02and05/99: 1/2 (50%) violations, mean=0.17 mg/mL. (near Fallbrook) 12/97-11/98: 4/5 (80%) violations, mean=0.25 mg/m; 02and05/99: 1/2 (50%) violations, mean = 0.12 mg/mL. RWQCB sampling: 1/1 (100%) and 1/1 (100%); 0.62 mg/L (at Willow Glen Road). RCWD sampling: 1/8 (13%) > WQO, (near Willow Glen Road) 1/8 (13%) violations, mean = 0.029 mg/L; (near De Luz Road) 1/6 (17%)

violations, mean = 0.043 mg/L

Spatial representation 32 total samples at 4 stations along segment

Temporal representation December 1997 to November 1998.

Numerical data Data type

Use of standard method

Potential Source(s) of Pollutant Urban runoff, other point sources and nonpoint sources

Alternative Enforceable Program Unknown

List **RWQCB Recommendation**

Segunda Deshecha Creek

Water Body Segunda Deshecha Creek

Stressor/Media/Beneficial Use Phosphorus/Water/REC-1, REC-2, WARM, WILD

Data quality assessment. Extent to which data quality requirements met.

NPDES permit monitoring

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (biostimulatory substance index = 0.1 mg/L) used

Water Body-specific Information Data age = 4 years.

Data used to assess water quality 7/97-6/98: 13/16 (81%) exceedences, mean=0.73 mg/mL; 8/98-

7/99: 15/20 (75%) exceedences, mean=0.25 mg/mL; 10/99-6/00: 6/7 (86%) exceedences, mean=0.37 mg/mL, all from wet months

Spatial representation One sample site

Temporal representation July 1997 to June 1998.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Urban runoff, other point sources and nonpoint sources

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Segunda Deshecha Creek

Water Body Segunda Deshecha Creek

Stressor/Media/Beneficial Use Turbidity/Water/WARM, WILD

Data quality assessment. Extent to which data quality requirements met.

NPDES permit monitoring

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO (Basin Plan) (20 Nephelometric Turbidity Units [NTU]) used

Water Body-specific Information Data age = 1-4 years.

Data used to assess water quality 7/97-6/98: 9/16 (56%) exceedences, mean=295.2 NTU; 8/98-7/99:

10/20 (50%) exceedences, mean=43.4 NTU; 10/99-6/00: 2/7 (100%) exceedences, mean=14.0 NTU, all from wet months

Spatial representation One sample site

Temporal representation July 1997 to June 2000.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Channelization, increased water velocity, undercutting of banks;

increased turbidity, current/historic construction

Alternative Enforceable Program Unknown

RWQCB Recommendation List

Tijuana Estuary

Water Body	Tijuana Estuary
water bouy	3

Stressor/Media/Beneficial Use Dissolved oxygen/Water/COMM, BIOL, EST, WILD, RARE,

MAR, MIGR

Tijuana Estuary monitoring Data quality assessment. Extent to which data quality requirements met.

Linkage between measurement endpoint and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained Basin Plan objective, dissolved oxygen concentration: 5.0 mg/L, any waterbody designated with MAR beneficial use. In addition, Basin Plan sets an annual objective of 7mg/L that shall not be exceeded more than 10% of the time during a one-year period.

Water Body-specific Information Data age = 3-4 years.

Staff Report: 1/2 hr. Interval monitoring consistently below Data used to assess water quality

minimum Basin Plan Objective. Fact Sheet: typically dropped

below 3 mg/L (10pm-8am), January-May 1998

One sample station used. RWQCB staff found it to be **Spatial representation**

representative of entire estuary.

Sampled every 30 minutes for two years. Temporal representation

Numerical data Data type

Use of standard method

Potential Source(s) of Pollutant Massive bacterial loading from raw sewage flows cause oxygen

depletion, decaying organic matter, urban runoff, other point

sources, and nonpoint sources.

Alternative Enforceable Program Unknown

List **RWQCB Recommendation**

List **SWRCB Staff Recommendation**

Pacific Ocean Shoreline (Coronado Beach)

Water Body Pacific Ocean Shoreline (Coronado Beach)

Stressor/Media/Beneficial Use Bacterial indicators/Water/REC-1, REC-2

Data quality assessment. Extent to which data quality requirements met.

City of Coronado

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

Closures a measure of impacts on beneficial use. Listing recommendation: >10 days/year beach closures or advisories.

Water Body-specific Information Data age = 2 years.

Data used to assess water qualityCease-and-Desist Orders 97-69 and 98-74 issued to City of

Coronado. City implemented wet/dry weather diversion systems and ultra-violet (UV) treatment to reduce sewage discharge problems. City began semi-annual WDRs reporting based on weekly monitoring at four Coronado Beach sites. Surf Zone C (1/13/00-1/2/01): 7/153 (5%) possible exceedences. Surf Zone A (5/26/99-12/28/00): 7/249 (3%) possible exceedences. Central Beach (11/1/99-1/2/01): 7/183 (4%) possible exceedences. Ave. del Sol (4/3/00-1/2/01): 6/120 (5%) possible exceedences. Total:

27/705 (4%) possible exceedences.

Spatial representation Four sample sites covering the extent of the to-be-delisted area.

Temporal representation Weekly samples.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Sewage spills/leaks, urban runoff, other point sources, nonpoint

sources, and domestic/wild animals.

Alternative Enforceable Program Cease-and-Desist Orders led to WDRs and appropriate steps to

reduce pollution. City has taken appropriate initial steps. Delisting

may encourage further action.

RWQCB Recommendation Delist

SWRCB Staff Recommendation Delist, and put on Watch List to continue to keep an eye on problem.

Pacific Ocean Shoreline (Ocean Beach)

Water Body Pacific Ocean Shoreline (Ocean Beach)

Stressor/Media/Beneficial Use Bacterial indicators/Water/REC-1, REC-2

Data quality assessment. Extent to which data quality requirements met.

San Diego County Department of Environmental Health

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

Closures a measure of impacts on beneficial use. Listing recommendation: >10 days/year beach closures or advisories.

Water Body-specific Information Data age = 1 yr.

Data used to assess water quality 13 days of Beach Closures and/or General Advisories, which

suggests that REC-1 standards were exceeded.

Spatial representation Sampled within 400 yards (0.2 miles) of discharge point

Temporal representation 13 days of Beach Closures/Advisories.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Sewage spills/leaks, urban runoff, other point sources, nonpoint

sources, and domestic/wild animals.

Alternative Enforceable Program Unknown

RWQCB Recommendation Add specific location (not new HA) to 1998 Listing

Pacific Ocean Shoreline (South Capistrano State Beach)

Water Body Pacific Ocean Shoreline (South Capistrano State Beach)

Stressor/Media/Beneficial Use Bacterial indicators/Water/REC-1, REC-2

Data quality assessment. Extent to which data quality requirements met.

Orange County Environmental Health Care Agency

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

Closures a measure of impacts on beneficial use. Listing recommendation: >10 days/year beach closures or advisories.

Water Body-specific Information Data age = 1 yr.

Data used to assess water quality41 days of Beach Closures and/or General Advisories, which

suggests that REC-1 standards were exceeded.

Spatial representation Sampled within 400 yards (0.2 miles) of discharge point

Temporal representation 41 days of Beach Closures/Advisories.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Sewage spills/leaks, urban runoff, other point sources, nonpoint

sources, and domestic/wild animals.

Alternative Enforceable Program Unknown

RWQCB Recommendation Add specific location (not new HA) to 1998 Listing

Pacific Ocean Shoreline (San Onofre State Beach/San Mateo Creek

Water Body Pacific Ocean Shoreline (San Onofre State Beach/San Mateo Creek

Outlet)

Stressor/Media/Beneficial Use Bacterial indicators/Water/REC-1, REC-2

Data quality assessment. Extent to which data quality requirements met.

San Diego County Department of Environmental Health

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

Closures a measure of impacts on beneficial use. Listing recommendation: >10 days/year beach closures or advisories.

Water Body-specific Information Data age = 1 yr.

Data used to assess water quality 15 days of Beach Closures and/or General Advisories, which

suggests that REC-1 standards were exceeded.

Spatial representation Sampled within 400 yards (0.2 miles) of discharge point

Temporal representation 15 days of Beach Closures/Advisories.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Sewage spills/leaks, urban runoff, other point sources, nonpoint

sources, and domestic/wild animals.

Alternative Enforceable Program Unknown

RWQCB Recommendation Add specific location (not new HA) to 1998 Listing

San Diego Bay Kellog Street Beach (Pueblo San Diego HU [908.00]

Water Body San Diego Bay Kellog Street Beach (Pueblo San Diego HU

[908.00] and Sweetwater HU [909.00])

Stressor/Media/Beneficial Use Bacterial indicators/Water/REC-1, REC-2

Data quality assessment. Extent to which data quality requirements met.

San Diego County Department of Environmental Health

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

Closures a measure of impacts on beneficial use. Listing recommendation: >10 days/year beach closures or advisories.

Water Body-specific Information Data age = 1 yr.

Data used to assess water quality 13 days of Beach Closures and/or General Advisories, which

suggests that REC-1 standards were exceeded.

Spatial representation Sampled within 400 yards (0.2 miles) of discharge point

Temporal representation 13 days of Beach Closures/Advisories.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Sewage spills/leaks, urban runoff, other point sources, nonpoint

sources, and domestic/wild animals.

Alternative Enforceable Program Unknown

RWQCB Recommendation Add specific location (not new HA) to 1998 Listing

San Diego Bay Shelter Island Shoreline Park (Pueblo San Diego

Water Body San Diego Bay Shelter Island Shoreline Park (Pueblo San Diego

908.00 and Sweetwater)

Stressor/Media/Beneficial Use Bacterial indicators/Water/REC-1, REC-2

Data quality assessment. Extent to which data quality requirements met.

San Diego County Department of Environmental Health

Linkage between measurement endpoint

and benefical use or standard

Pollutant can have a direct impact on beneficial uses.

Utility of measure for judging if standards or uses are not attained

Closures a measure of impacts on beneficial use. Listing recommendation: >10 days/year beach closures or advisories.

Water Body-specific Information Data age = 1 yr.

Data used to assess water quality 24 days of Beach Closures and/or General Advisories, which

suggests that REC-1 standards were exceeded.

Spatial representation Sampled within 400 yards (0.2 miles) of discharge point

Temporal representation 24 days of Beach Closures/Advisories.

Data type Numerical data

Use of standard method

Potential Source(s) of Pollutant Sewage spills/leaks, urban runoff, other point sources, nonpoint

sources, and domestic/wild animals.

Alternative Enforceable Program Unknown

RWQCB Recommendation Add specific location (not new HA) to 1998 Listing

Water Body

San Diego Bay, Coronado

Stressor/Media/Beneficial Use	Bacterial indicators/Water/REC-1, REC-2
Data quality assessment. Extent to	San Diego County Department of Environmental Hea

Data quality assessment. Extent to	San Diego County Department of Environmental Health
which data quality requirements met.	

San Diego Bay, Coronado

Linkage between measurement endpoint	Pollutant can ha	Pollutant can have a direct impact on beneficial uses.				
and benefical use or standard						

Utility of measure for judging if	Closures a measure of impacts on beneficial use. Listing
standards or uses are not attained	recommendation: >10 days/year beach closures or advisories.

Water Body-specific Information	Data age = 1 yr.

Data used to assess water quality	17 days of Beach Closures and/or General Advisories, which
	suggests that REC-1 standards were exceeded.

Spatial representation	Sampled within 400 yards (0.2 miles) of discharge point

Temporal representation	17 days of Beach Closures/Advisories.
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Data type Numerical data

Use of standard method

Sewage spills/leaks, urban runoff, other point sources, nonpoint **Potential Source(s) of Pollutant**

sources, and domestic/wild animals.

Alternative Enforceable Program Unknown

Add specific location (not new HA) to 1998 Listing **RWQCB Recommendation**

Water Bodies Proposed for the Watch List by Region 9

Agua Hedionda Creek Benthic community degradation Eutrophication Incised channel Agua Hedionda Lagoon Caulerpa taxifolia Copper (dissolved) Selenium Aliso Creek Chlordane Dieldrin Heptachlorepoxide PCB Alvarado Creek Benthic community degradation Eutrophication Sedimentation/Siltation Trash Beach and Bay Shorelines displaying a Permanent Health Risk sign Unknown constituents that may effect human health **Boulder Creek** Exotic vegetation (Tamarisk sp.) Hydromodification (scour from reservoir release) Buena Vista Creek Benthic community degradation Eutrophication Chocolate Creek Eutrophication Sedimentation/Siltation Chollas Creek Total chlordane Total PCB Trash Turbidity Cloverdale Creek Eutrophication

Sedimentation/Siltation

Cottonwood Creek	
	Diazinon
	Eutrophication
	Exotic vegetation (Tamarisk sp.)
	Hydromodification (scour from reservoir release)
Deluz Creek	
	Sulfate
	Total dissolved solids
Delzura Creek	
	Erosion
	Eutrophication
	Incised channel
	Sedimentation/Siltation
Encinitas Creek	
	Diazinon
	Eutrophication
	Malathion
Escondido Creek	
	Benthic community degradation
	Diazinon
	Eutrophication
	Sulfate
	Total dissolved solids
Fallbrook Creek	
Twintier Cave	Iron
	Manganese
	Phosphorus
Famosa Slough	1
Tumosa Stoagn	Dieldrin
	Total chlordane
	Total DDT
	Total PCB
Forrester Creek	
Torrester Creek	Eutrophication
	Trash
Green Valley Creek	114511
Green variey Creek	Benthic community degradation
	Eutrophication
	Phosphorus
	Sedimentation/Siltation
	Trash
Hatfield Creek	110311
Hather Cieck	

Eutrophication Incised channel

King Creek	
	Eutrophication
Laguna Lakes	
	Bacterial indicators
Lake Hodges	
	MTBE
Loma Alta Creek	
	Benthic community degradation
	Eutrophication
Los Penasquitos Creek	
	Sedimentation/Siltation
Lower Otay Reservoir	
Lower out reservoir	Color
	Odor
Miramar Reservoir	
Wilding Reservoir	Bromodichloromethane
	Chlorodibromomethane
	Chloroform
	Total dissolved solids
Murray Reservoir	
Wallay Reservoir	Bromodichloromethane
	Chloride
	Chloroform
	Dibromochloromethane
	Phosphorus
	Sodium
	Sulfate
Murrieta Creek	
Trainom Crook	Iron
	Manganese
	Total dissolved solids
Oceanside Harbor	
Countries Trained	Copper (dissolved)
Oso Creek	copper (dissorted)
OSO CICCR	Chloride
	Phosphorus
	Sulfate
	Total dissolved solids
	Turbidity
Pacific Ocean Shoreline (Emerald Bay)	•
Tacine Coun onoronne (Emeraid Day)	Bacterial indicators
Padre Barona Creek	
I date Batolia Clock	Eutrophication

Incised channel

	Cadmium
	Nickel
Proctor Valley Creek	
	Trash
Rainbow Creek	
	Sediment toxicity
	Sulfate
	Total dissolved solids
	Trash
Reidy Creek	
	Nitrogen
	Phosphorus
Rose Creek	1
TOOL CIVE	Sedimentation/Siltation
San Diego Bay at Mouth of Switzer Creek	Seamenation Situation
Sail Diego Bay at Moutil of Switzer Creek	Chlordane
	Lindane
	PAH
	РАП
San Diego Bay at America's Cup Harbor	
	Copper (dissolved)
San Diego Bay at B Street Pier	
	Chlordane
	Lindane
	PAH
San Diego Bay at Harbor Island (East	
Basin)	
	Arsenic
	Cadmium
	Copper (dissolved)
San Diego Bay at Harbor Island (West	
Basin)	C(4:11)
a D' D (I 10)	Copper (dissolved)
San Diego Bay at Laurel Street	
	Arsenic
	Cadmium
	Copper (dissolved)
San Diego Bay at Marriott Marina	
	Copper (dissolved)
San Diego Bay at North Island Aircraft	
Platform	
	Arsenic
	Cadmium
	Copper (dissolved)

Prima Deshecha Channel

San Diego Bay at Shelter Island Yacht Harbor	
	Arsenic
	Cadmium
San Diego Bay at South Bay Power Plant	
	Chlorine
	Thermal warming
	Turbidity
San Diego River	
č	Benthic community degradation
	Benzene
	Chlordane
	Eutrophication
	Exotic vegetation (Water Hyacinth,
	Arundo sp., Tamarisk sp.) Methyl tertiary-butyl ether (MTBE)
	Trash
San Juan Creek	
	Erosion
	Incised channel
	PCB
	Sedimentation/Siltation
San Luis Rey River	
	Calcium
	Eutrophication
	Magnesium
	Phosphorus
San Marcos Lake	•
San Marcos Bake	Dissolved oxygen
San Mateo Creek	2 issorved onlygen
San Matco Cicck	Introduced (non-native) amphibian
	species: bullfrogs
	Introduced (non-native) fish species: black bullhead, bluegill, channel catfish, green sunfish, largemouth bass, mosquito fish
	Introduced (non-native) invertebrate species: non-native crayfish
	Introduced (non-native) plant
	species: saltcedar, other exotic vegetation
	Total dissolved solids
Sandia Creek	
	Lead
	Sulfate
Santa Margarita River (entire and	
tributaries)	
,	Sedimentation/Siltation

Santa Margarita River (Lower)	
	Iron
	Manganese
	Sulfate
	Total dissolved solids
Santa Margarita River (Upper)	
	Iron
	Manganese
	Sulfate
	Total dissolved solids
Santa Maria Creek	
	Bacterial indicators
	Exotic vegetation (Tamarisk sp.)
Santa Ysabel Creek	
	Exotic vegetation (Arundo sp. and Tamarisk sp.)
Scove Creek	
	Bacterial indicators
	Incised channel
	Nutrients
Sorrento (Carroll Canyon) Valley Creek	
	Eutrophication
Sycamore Canyon Creek	
	Eutrophication
	Exotic vegetation (Arundo donax)
	Phosphorus
	Trash
Tecolote Creek	
	Sedimentation/Siltation
Tijuana River Estuary	
•	Turbidity

Reference List for Region 9

Staff Report

California Regional Water Quality Control Board. San Diego Region. 2002. Final Draft Clean Water Act Section 303(d) List of Impaired Waters, 2002 Update. February 13, 2002

Technical References

Ad Hoc Workgroup, 1997. 1998 Clean Water Act (CWA) Section 303(d) Listing Guidelines for California. Workgroup Summary Document published August 11, 1997. State Water Resources Control Board.

Federal Register, May 2000. California Toxics Rule. 40CFR Part 131, Federal Register May 18, 2000, pages 3162-31719.

Haile, Robert W., John S. Witte, Mark Gold, Ron Cressey, Charles McGee, Robert C. Millikan, Alice Glasser, Nina Harawa, Carolyn Ervin, Patricia Harmon, Janice Harper, John Dermand, James Alamillo, Kevin Barrett, Mitchell Nides, and Guang-yu Wang, 1999. "The Health Effects of Swimming in Ocean Water Contaminated by Storm Drain Runoff." Epidemiology 10:355-363.

Marshack, J. B., 2000. A Compilation of Water Quality Goals, California Environmental Protection Agency, Regional Water Quality Control Board Central Valley Region.

Metcalf and Eddy, 1991. Wastewater Engineering: Treatment, Disposal and Reuse, 3rd Edition, McGraw-Hill, Inc., 1334 pages.

SDRWQCB, 1994. Water Quality Control Plan for the San Diego Basin (9), California Regional Water Quality Control Board, San Diego Region.

State of California, 2001. California Code of Regulations, TITLE 17, Section 7958. Bacteriological Standards

State of California, 2001. California Code of Regulations, TITLE 22. Social Security Division 4. Environmental Health Chapter 15. Domestic Water Quality and Monitoring Regulations, Articles 4 and 16.

State of California, 2000. Regulations and Guidance for Beaches. Appendices-- Draft Guidance for Salt- and Fresh Water Beaches, Department of Health Services.

SWRCB, 1968. Resolution Number 68-16 "Statement of Policy with Respect to Maintaining High Quality of Waters in California, State Water Resources Control Board.

SWRCB, 1996. General File 77-0118.02, File:1, 08/95 – 12/96. California Regional Water Quality Control Board, San Diego Region.

SWRCB, 1997. Water Quality Control Plan for Ocean Waters of California, State Water Resources Control Board.

SWRCB, 2000. Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, State Water Resources Control Board.

USEPA, 1997. National Clarifying Guidance For 1998 State and Territory Clean Water Act Section 303(d) Listing Decisions, United States Environmental Protection Agency.